APPENDIX A



lalign output for Human T-bet SEQ ID NO:1 vs. Mouse T-bet SEQ ID

NO:3

[ISREC-Server] Date: Thu Nov 9 21:12:46 Europe/Zurich 2006

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resetti	ng matrix	to DNA ./	wwwtmp/la	align/.27842	2.1.seq:160	8 nt	**************************************
Vers: Human Mouse scorin	ion 2.0u T-bet SI T-bet Si	Please ci EQ ID NO: EQ ID NO: k: DNA, q	te: Myers 1 3 ap penalt	and Mill	wo sequencer, CABIOS -4 score: 59	(1989) 4: 1608 nt v 1593 nt	11-17 vs.
./wwwt Mouse	:::::::	:::::::::::::::::::::::::::::::::::::::	:::::		40 CTGACGGGCA ::::::::::: CTGACCGGCA 40		
./wwwt	AGCGACG	70 AGGGCCGG	80 GCGCCTGGC	90 GCCGACCCG	100 CAGCACCGCT	110 ACTTCTACCC	120
Mouse	:: ::::	:::::::	: ::: ::	:: ::::	CAGCATCGTT	CTTCTATCC	
. /wwwt	GGCGCGC	130	140	150	160 GCAGCCTGGG	170	180
	:::::::::::::::::::::::::::::::::::::::	:::::	::: ::	:::: ::	::::::::::		
Mouse	120	AGGACCCG/ 130	ACCGATCGCO 140	CGCGCAGGTA 150	AGCAGCCTGGG 160	GACGCCCTAC 170	CTCTGGG
./wwwt	GGCGCCT	190 TGGTGCCC	200 GCCCCGCCG	210 AGCCGCTTCC	220 TTGGAGCCTA	· 230	240 GCCGCGA
Mouse	GGCGCCC 180	IGGTGCCTG	:: ::::: CCGCGCCCG 200	GTCGCTTCC	::::: ::: TTGGATCCTT 220	CGCCTACCC 230	GCCCCGG
./wwwt		250 CGGCCGGCT	260 TCCCCGGCG	270 CGGGCGAGT	280 - CCTTCCCGCC	290 GCCCGCGGAC	300
Mouse	: ::::	::: ::::	: :::::	: ::::::	TCTTCCCGCC		
/		310	320	330	340	350	360
./wwwc	GGCTACCA	AGCCGGGCG	AGGGCTACG : :::::	CCGCCCCGG	ACCCGCGCGC	CGGGCTCTAC	CCGGGG
Mouse	GGCTACCO 300	CGCCCGTGG 310	ATGGCTACC 320	CTGCCCCTG 330	ACCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG	GGGGCTCTAC 350	CCAGGG
./wwwt	CCGCGTGA	370 AGGACTACG	380 CGCTACCĆG	390 CGGGACTGG	400 AGGTGTCGGG	410 GAAACTGAGG	420 GTCGCG
	::::: ::	:::::::	: :::::	:::: ::::	AGGTGTCTGGG		
	4	30	440	450	460	470	480

	\bigcap				\bigcap			
Mouas			:::::::::::::::::::::::::::::::::::::::	:::::::::::::::::::::::::::::::::::::::	::::::::	:::::::::::::::::::::::::::::::::::::::	:::::	
Mouse	420	JAACCACCI 430	GTTGTGGTC 440	CAAGTTCAAC 450	CAGCACCAGA 460		CATCACT	
		150	440	450	460	470		
/	- 22002	490	500	510	520	530	540	
./www	t AAGCAC	GGACGGCG	GATGTTCCC	ATTCCTGTCA	TTTACTGTGG(CGGGCTGGA	GCCCACC	
Mouse	AAGCAA	GGACGGC	AATGTTCCC.	ATTCCTGTCC	TTCACCGTGGC	CGGGCTGGA	GCCCACA	
	480	490	500	510	520	530		
		550	560	570	580	590	600	
./wwwt	AGCCAC	TACAGGAT	GTTTGTGGA	CGTGGTCTTG	STGGACCAGCA	CCACTGGCG	TACCAG	
Mouse	:::::	:::::::		:::::::::::	:::::::::::::::::::::::::::::::::::::::	:::::::::		
110436	540	550	560	rereererree 570	GTGGACCAGCA 580	CCACTGGCG0. 590	STACCAG	
. /wwwt	AGCGGC	610 AAGTGGGT	620 GCAGTGTGG	630	640 GCAGCATGCC	650	660	
	:::::	:::::::	:::::::::::	:::::: :: :				
Mouse	AGCGGC	AAGTGGGT	GCAGTGTGGA	\AAGGCAGAAG	GCAGCATGCC	AGGGAACCGC	TTATAT	
	600	. 610	. 620	630	640	650	•	
·		670	680	690	700	710	720	
./wwwt	GTCCAC	CCGGACTC	CCCCAACACA	GGAGCGCACT	GGATGCGCCA	GGAAGTTTCA	TTTGGG	
Mouse	GTCCAC	CCAGACTC	CCCCAACACC	CGAGCCCACT	GGATGCGCCA	::::::::::::::::::::::::::::::::::::::	******	
	660	670	680	690	700	710	TTTGGG	
		730	740	750			-	
./wwwt	AAACTA		740 \AACAACAAG	750 GGGGCGTCCA	760 ACAATGTGAC	770 ~~മഭമനഭമനന	780 GTGCTC	
	:: ::::		::::::::	:::::	:::::::::::			
Mouse	AAGCTAA 720	AAGCTCACO	CAACAACAAG 740	GGGGCTTCCA 750	ACAATGTGAC		GTCCTG	
				-	760	770		
/1.71.71.14	CACTCCC	790	800	810	820	830	840	
./www.c	:::::	:::::::	TACCAGCCC	CGGCTGCATA	ICGTTGAGGTO	SAACGACGGA	GAGCCA	
Mouse	CAGTCTC	TCCACAAC	TACCAGCCC	CGGCTGCACA'	rcgtggaggt	AATGATGGA	SAGCCA	
	780	790	800	810	820	830		
		850	860	870	880	890	900	
./wwwt	GAGGCAG	CCTGCAAC	GCTTCCAAC	ACGCATATCT	TACTTTCCAA	GAAACCCAGT	TCATT	
Mouse	GAGGCTG		GCTTCTAAC	CACACGTCTT	TACTTTCCAA	CACACCCACT		
	840	850	860	870	880	890	TCATT	
		910	920	000				
./wwwt	GCCGTGA			930 SAGATTACTCA	940 AGCTGAAAATT	950 Gataataacc	960 'CCTTTT	
	:: ::::	:::::::	::::: :: :	::::: :::::	::::::::	:: :: ::		
Mouse	GCAGTGA 900	CTGCCTAC 910	CAGAACGCAO 920	SAGATCACTCA 930	GCTGAAAATC 940		CCTTT	
	300	310	320	930	940	950		
/· · · · · ·		970	980	990	1000	1010	1020	
./WWWE	GCCAAAG	GATTCCGG(GAGAACTTTO	SAGTCCATGTA	CACATCTGTT	GACACCAGCA		
Mouse	GCCAAAG	GATTCCGG	GAGAACTTTG	AGTCCATGTA	CGCATCTGTT	:: :: :: GATACGAGTG	TCCCC	
	960	970	980	990	1000	1010		
•	1 (030	1040	1050	1060	1070	1000	
./wwwt	TCCCCGC	CTGGACCC	AACTGTCAAT	TCCTTGGGGG	AGATCACTAC	1070 FCTCCTCTCC	1080 TACCC	
					11:10:11:11:11			
Mouse 1	TOGOCACO	TGGACCCI 1030	AACTGTCAAC 1040	TGCTTGGGGG. 1050	AGACCCCTTC	CACCTCTTC'	TATCC	
_				, 4000	1000	10/0		
/ 1.71.71.7+)90 \#CC#C###	1100	1110	1120	1130	1140	
·/ WWWL .	naccagt?	SICOTGTT(CCAGCCGCT	TCTACCCCGA	CCTTCCTGGC	CAGGCGAAGG	ATGTG	
				* * * * * * * * * * *	• • • • • • • • • • • • • • • • • • • •		• • • • •	

Mouse	AACCAGT 1080	ATCCTGTT	AGCCGTT 1100	TCTACCCCGA 1110	ACCTTCCAGGC 1120	CAGCCCÁAC 1130	GATATG	
./www	t GTTCCCC	AGGCTTAC	rggctggggg	CCCCCGGGA	1180 CCACAGCTAT	'GAGGCTGAG	1200 TTTCGA	
Mouse	ATCTCAC	AGCCTTAC'	IGGCTGGGGA	: :: ::::: CACCTCGGGA 1170	::::: ::: ACACAGTTAT 1180	:: :: ::: GAAGCGGAG 1190	TTCCGA	
./wwwt	t GCAGTCA	GCATGAAGO	CCTGCATTCT	TGCCCTCTGC	1240 CCCTGGGCCC	ACCATGTCC	TACTAC	
Mouse	GCTGTGA 1200	GCATGAAG(CCACACTCC 1220	TACCCTCTGC	CCCGGGGCCC 1240	ACTGTGCCC 1250	TACTAC	
./wwwt	: CGAGGCC	AGGAGGTCC	TGGCACCTG	GAGCTGGCTG	1300 GCCTGTGGCA	CCCCAGTAC	CCTCCC	
	CGGGGCC 1260	AAGACGTCC 1270	TGGCGCCTG	GAGCTGGTTG	GCCCGTGGCC 1300	CCTCAATAC	CCGCCC	
	AAGATGG	330 GCCCGGCCA	GCTGGTTCC	GCCCTATGCG	1360 GACTCTGCCC	ATGGAACCC	1380 GCCCT	
Mouse	AAGATGA	SCCCAGCTG	GCTGGTTCC	GCCCATGCG	AACTCTGCCC/ 1360	ATGGACCCG	GCCTG	
./wwwt	GGAGGCT	CAGAGGGAC	GGGGACCAGA	AGGACCAGGGT	1420 FCCCCCCTTGG	TGTGGACTC	1440 SAGATT	
Mouse	GGATCCTC	CAGAGGAAC 1390	AGGGCTCCT- 1400		::::::::::::::::::::::::::::::::::::::	TGTGGCCTC		
./wwwt	GCCCCCAT	CCGGCCGG.	AATCCAGTGA	TTCAGGACTO	1480 GGCGAAGGAG	ACTCTAAGA	GGAGG	
Mouse	ACCTCCCI	'CCAGCCGG	AGCCCAGCGA	CTCAGGACTA 1460	GGCGAAGGAG	ACACTAAGA 1480	GGAGG	
./wwwt	CGCGTGTC	CCCCTATC	CTTCCAGTGG		1540 TCCCCTGCTG		CTCCT	
Mouse	AGGATATO 1490	CCCCTATCO 1500	CTTCCAGTGG 1510	CGACAGCTCC 1520	TCTCCCGCTG 1530	GGGCCCCTT 1540	CTCCT	
./wwwt	15 TTTGATAA	GGAAGCTG	AAGGACAGTT	TTATAACTAT	1600 TTTCCCAACT	GA		
Mouse	TTTGATAA 1550	GGAAACCGA 1560	AAGGCCAGTT 1570	TTATAATTAT 1580	TTTCCCAACT	GA		

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